C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.120.10.g 10 O'Clock (PEER 15) Power-Up Tests

C-A-OPM Procedures in which this Attachment is used.		
4.120.10		

Hand Processed Changes

HPC No.	Date	Page Nos.	Initials
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Approved:_____*Signature on File*_____   _____
Collider-Accelerator Department Chairman   Date

V. Castillo

4.120.10.g 10 O'Clock (PEER 15) Power-Up Tests

PASS ANNUAL ACCEPTANCE TEST PROTOCOL

Division A Software Filename and Checksum: Title:_____ **Checksum:** _____

Division B Software Filename and Checksum: Title:_____ **Checksum:** _____

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Initial testing complete:

Test Team Leader's Name (Print): _____ **Life Number:** _____

Test Team Leader's Name (Sign): _____ **Date:** _____/____/_____

Acceptance test procedure complete (following repairs and retesting if required):

Test Team Leader's Name (Print): _____ **Life Number:**_____

Test Team Leader's Name (Sign): _____ **Date:** _____/____/_____

Test results reviewed by:

Safety Section Head's Name (Print):_____ **Life Number:** _____

Safety Section Head's Name (Sign):_____ **Date:** _____/____/_____

Test results accepted by Radiation Safety Committee:

RSC Member's Name (Print):_____ **Life Number:** _____

 RSC Member's Name (Sign):_____ **Date:**_____/____/_____

1.1	**PLACE**	**Peer 15** in **Mode 16**	
☐	**VERIFY**	**Peer 15** is in **Controlled Access**	**MODE 16**
	RESET	**Peer 15 gates:** 9GS1, 9EL1, 9GI1, 9ED1, 10GE1, 10GI1, 10EL1, 10ED1	
☐	**VERIFY**	**Peer 15 gates:** ☐ 9GS1, ☐ 9EL1, ☐ 9GI1, ☐ 9ED1, ☐ 10GE1, ☐ 10GI1, ☐ 10EL1, ☐ 10ED1, are	**RESET**
	SWEEP	**Peer 15 Zones:** 9Z1, 10Z1, 10Z2	
☐	**VERIFY**	**Peer 15 Zones:** ☐ 9Z1, ☐ 10Z1, ☐ 10Z2 are	**SWEPT**
	PLACE	**Peer 15** in **Mode 24**	
☐	**VERIFY**	**Peer 15** is in **No Access**	**MODE 24**

1.2	**TEST**	**Division A PLC** for **Power-up** conditions	
	TURN OFF	**AC Power** to the **Peer 15 Division A PLC**	
☐	**VERIFY**	**AC Power** to the **Peer 15 Division A PLC** is	**TURNED OFF**
	WAIT	**30 Seconds**	
	TURN ON	**AC Power** to the **Peer 15 Division A PLC**	
☐	**VERIFY**	**AC Power** to the **Peer 15 Division A PLC** is	**TURNED ON**
☐	**VERIFY**	**MCR** sees **Peer 15 Division A PLC** come up in	**MODE 2**
	RESET	**Div A** Hardware **Faults**	
☐	**VERIFY**	**Div A** Hardware **Faults** are	**RESET**
☐	**VERIFY**	**MCR** sees **Div A RHIC Injection Critical Device**	**RCI**
☐	**VERIFY**	**MCR** sees **Div A RHIC Critical Device** is	**RC**
☐	**VERIFY**	**MCR** sees **Div A Permit Link** is	**INHIBITED**
☐	**VERIFY**	**MCR** sees **Peer 15 Div A gates:** ☐ 9GS1, ☐ 9EL1, ☐ 9GI1, ☐ 9ED1, ☐ 10GE1, ☐ 10GI1, ☐ 10EL1, ☐ 10ED1 are	**NOT RESET**
☐	**VERIFY**	**MCR** sees **Peer 15 Div A Crash Systems** are	**NOT CRASHED**
☐	**VERIFY**	**MCR** sees **Peer 15 Div A Zones** are	**NOT SWEPT**
☐	**VERIFY**	**MCR** sees **Peer 15 Div B:** ☐ Mode, ☐ H/W Faults, ☐ RHIC Inj CD, ☐ RHIC CD, ☐ Perm. Link, ☐Gates, ☐ Crash , ☐ Zones	**NO CHANGE**

1.3 **TEST** **Division B PLC** for **Power-up** conditions

TURN OFF **AC Power** to the **Peer 15 Division B PLC**

☐ **VERIFY** **AC Power** to the **Peer 15 Division B PLC** is **TURNED OFF**

WAIT **30 Seconds**

TURN ON **AC Power** to the **Peer 15 Division B PLC**

☐ **VERIFY** **AC Power** to the **Peer 15 Division B PLC** is **TURNED ON**

☐ **VERIFY** **MCR** sees **Peer 15 Division B PLC** come up in **MODE 2**

RESET **Div B** Hardware **Faults**

☐ **VERIFY** **Div B** Hardware **Faults** are **RESET**

☐ **VERIFY** **MCR** sees **Div B RHIC Injection Critical Device** **RCI**

☐ **VERIFY** **MCR** sees **Div B RHIC Critical Device** is **RC**

☐ **VERIFY** **MCR** sees **Div B Permit Link** is **INHIBITED**

☐ **VERIFY** **MCR** sees **Peer 15 Div B gates:** ☐ 9GS1, ☐ 9EL1, ☐ 9GI1, ☐ 9ED1, ☐ 10GE1, ☐ 10GI1, ☐ 10EL1, ☐ 10ED1 are **NOT RESET**

☐ **VERIFY** **MCR** sees **Peer 15 Div B Crash Systems** are **NOT CRASHED**

☐ **VERIFY** **MCR** sees **Peer 15 Div B Zones** are **NOT SWEPT**

☐ **VERIFY** **MCR** sees **Peer 15 Div A:** ☐ Mode, ☐ H/W Faults, ☐ RHIC Inj CD, ☐ RHIC CD, ☐ Perm. Link, ☐Gates, ☐ Crash , ☐ Zones **NO CHANGE**

PLACE **Peer 15** in **Mode 16**

☐ **VERIFY** **Peer 15** is in **Controlled Access** **MODE 16**

RESET **Peer 15 Div B gates:** 9GS1, 9EL1, 9GI1, 9ED1, 10GE1, 10GI1, 10EL1, 10ED1

☐ **VERIFY** **Peer 15 Div B gates:** ☐ 9GS1, ☐ 9EL1, ☐ 9GI1, ☐ 9ED1, ☐ 10GE1, ☐ 10GI1, ☐ 10EL1, ☐ 10ED1 are **RESET**

SWEEP **Peer 15 Div B Zones:** 9Z1, 10Z1, 10Z2

☐ **VERIFY** **Peer 15 Zones:** ☐ 9Z1, ☐ 10Z1, ☐ 10Z2 are **SWEPT**

END OF TEST PROCEDURE

TTL: Sign for completion of initial testing: _____

   Date: _____/_____/_____

TTL: Sign for completion of final testing: _____

   Date: _____/_____/_____